

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/000,158	KHANNA ET AL.	
	Examiner	Art Unit	
	Hashem Farrokh	2187	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/3/06.
2. ☐ The allowed claim(s) is/are 1-4,6,7,9-15,17-19,21-30,32-39,41-43,45,47,49-51,53,54 and 56-60.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|--|

### **EXAMINER'S AMENMENT**

*The Examiner initiated a telephone call with the Applicants (Mr. Chales E. Shemwell 40,171) on 5/16/06. The examiner informed the Applicants that claim 41 depend from claim 40, which is a canceled claim. The Applicant authorized the Examiner to make a correction by an examiner amendment. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.*

*Please make the following amendment:*

#### **CLAIM 41:**

*Line 1, replace "claim 40" with --claim 39--*

### **REASONS FOR ALLOWANCE**

**The following are the Examiner's statements of reasons for allowance:**

**The prior art does not teach or suggest the combination and relationship between these features:**

1. *The primary reasons for allowance of independent claims 1-4, 6-7, 9-13, 49-51, and 53-54 in the instant application is the combination with the inclusion of the following limitations: **"translating the second bit group from the second position to second position of the comparand in response to second translation information;***

**selecting the first translation information in a first cycle and the second translation information in a second cycle”**

2. *The primary reasons for allowance of independent claims 14-15, 17-19, 21-28, 39, 41-42, and 46-47 in the instant application is the combination with the inclusion of the following limitations: “a decode circuitry coupled to the storage element to*

**decode the translation information and to establish a connection in the switch circuit between the first position and position in comparand”**

3. *The primary reasons for allowance of independent claims 29-30 and 32-38 in the instant application is the combination with the inclusion of the following limitations: “the*

**output coupled to the CAM array to transmit the comparand to the CAM block, wherein each of the plurality of translation circuitry is configured to translate the plurality of bit groups over multiple operation cycles”**

4. *The primary reasons for allowance of independent claims 43 and 45 in the instant application is the combination with the inclusion of the following limitations:*

**“means for translating, in response to translation information, a bit group from a position of an input data having a plurality of bit groups to a different position in a comparand”**

5. *The primary reasons for allowance of independent claims 56-60 in the instant application is the combination with the inclusion of the following limitations: “wherein*

**the second input is configured to receive the translation information indicative of translation of the first bit group from the first position to a different position in a comparand”**

**Conclusion**

*Any inquiry concerning this communication should be directed to Hashem Farrokh whose telephone number is (571) 272-4193. The examiner can normally be reached Monday-Friday from 8:00 AM to 5:00 PM.*

*If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A Sparks, can be reached on (571) 272-4201.*

*Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBS) at 866-217-9197 (toll-free).*

*HF*  
HF

2006-05-16

  
DONALD SPARKS  
SUPERVISORY PATENT EXAMINER